

ABSTRACT

High strength hot rolled steel sheet having at least
a 590 N/mm² tensile strength and excellent in elongation
5 and ability of phosphate coating, that is, high strength
hot rolled steel sheet excellent in burring, elongation,
and ability of phosphate coating having a tensile
strength of 590 N/mm² or more comprising a steel
composition containing, by mass%, C: 0.02 to 0.08%, Si:
10 0.50% or less, Mn: 0.50 to 3.50%, P: 0.03% or less, S:
0.01% or less, Al: 0.15 to 2.0%, and the balance of iron
and unavoidable impurities, satisfying $Mn+0.5 \times Al < 4$,
having a microstructure of the steel sheet having a ratio
of ferrite having a grain size of 2 μm or more of 40% or
15 more.